

Frequency Mixer

SYXM-ED13232B/1

Typical Performance Data

RF (IN) (MHz)	LO (MHz)	CONVERSION LOSS IF FIXED @IF(OUT)=70MHz (dB)			RF (IN) (MHz)	LO (MHz)	IP3 INPUT (dBm)			RF (IN) (MHz)	LO (MHz)	COMPRESSION @RF IN=+13dBm (dB)		
		@LO (dBm)					@LO (dBm)					@LO (dBm)		
+14	+17	+20	+14	+17	+20	+14	+17	+20						
140.1	70.1	10.79	10.64	10.53	140.1	70.1	20.28	21.98	23.39	140.1	70.1	0.54	0.32	0.19
200.1	130.1	8.48	8.40	8.32	200.1	130.1	21.48	23.12	24.72	200.1	130.1	0.47	0.28	0.16
260.1	190.1	7.49	7.43	7.34	260.1	190.1	20.59	21.82	22.81	260.1	190.1	0.58	0.40	0.29
320.1	250.1	6.33	6.29	6.24	320.1	250.1	21.98	24.26	27.06	320.1	250.1	0.50	0.28	0.16
380.1	310.1	5.98	5.90	5.85	380.1	310.1	18.85	19.96	21.47	380.1	310.1	0.78	0.46	0.31
420.1	350.1	5.68	5.61	5.57	420.1	350.1	17.2	19.9	22.64	420.1	350.1	1.42	0.68	0.37
500.1	430.1	7.03	7.01	7.00	500.1	430.1	25.79	28.43	30.68	500.1	430.1	0.42	0.18	0.10
560.1	490.1	6.36	6.33	6.30	560.1	490.1	24.22	26.20	28.63	560.1	490.1	0.48	0.21	0.12
620.1	550.1	6.09	6.03	5.98	620.1	550.1	23.50	25.21	27.60	620.1	550.1	0.49	0.22	0.12
680.1	610.1	6.63	6.59	6.55	680.1	610.1	22.12	24.77	27.44	680.1	610.1	0.57	0.24	0.13
740.1	670.1	6.87	6.82	6.76	740.1	670.1	20.26	23.36	26.29	740.1	670.1	1.23	0.51	0.24
800.1	730.1	6.89	6.84	6.78	800.1	730.1	19.70	22.23	24.85	800.1	730.1	0.91	0.48	0.27
860.1	790.1	6.97	6.90	6.81	860.1	790.1	19.22	21.68	23.93	860.1	790.1	0.92	0.54	0.31
920.1	850.1	7.11	7.05	6.96	920.1	850.1	19.33	21.37	23.44	920.1	850.1	0.76	0.49	0.32
980.1	910.1	7.24	7.18	7.09	980.1	910.1	20.10	22.26	24.75	980.1	910.1	0.77	0.49	0.29
1040.1	970.1	7.55	7.51	7.44	1040.1	970.1	21.41	23.12	25.87	1040.1	970.1	0.70	0.43	0.25
1100.1	1030.1	7.78	7.80	7.76	1100.1	1030.1	22.12	24.71	27.89	1100.1	1030.1	0.63	0.35	0.19
1160.1	1090.1	7.55	7.58	7.53	1160.1	1090.1	22.78	25.57	28.99	1160.1	1090.1	0.77	0.40	0.20
1220.1	1150.1	7.28	7.29	7.23	1220.1	1150.1	22.33	25.45	29.04	1220.1	1150.1	0.93	0.47	0.23
1280.1	1210.1	7.21	7.19	7.12	1280.1	1210.1	22.46	25.52	29.38	1280.1	1210.1	0.96	0.48	0.22
1340.1	1270.1	6.99	6.94	6.87	1340.1	1270.1	23.58	26.91	30.67	1340.1	1270.1	0.88	0.39	0.17
1400.1	1330.1	7.02	6.96	6.88	1400.1	1330.1	22.94	25.78	29.53	1400.1	1330.1	0.95	0.44	0.21
1460.1	1390.1	7.43	7.42	7.37	1460.1	1390.1	23.41	26.32	29.57	1460.1	1390.1	0.83	0.39	0.18
1520.1	1450.1	7.24	7.20	7.15	1520.1	1450.1	23.75	26.79	30.12	1520.1	1450.1	0.77	0.34	0.15
1580.1	1510.1	7.18	7.11	7.05	1580.1	1510.1	22.43	25.22	28.72	1580.1	1510.1	0.87	0.39	0.19
1640.1	1570.1	7.31	7.24	7.16	1640.1	1570.1	22.21	24.99	28.26	1640.1	1570.1	0.84	0.39	0.19
1700.1	1630.1	7.26	7.18	7.12	1700.1	1630.1	22.79	25.80	29.08	1700.1	1630.1	0.68	0.31	0.16
1760.1	1690.1	7.49	7.42	7.36	1760.1	1690.1	22.86	26.33	29.80	1760.1	1690.1	0.64	0.30	0.16
1820.1	1750.1	7.73	7.67	7.62	1820.1	1750.1	23.07	26.73	30.90	1820.1	1750.1	0.61	0.29	0.15
1880.1	1810.1	8.12	8.05	8.00	1880.1	1810.1	24.08	28.07	32.28	1880.1	1810.1	0.53	0.25	0.12
1940.1	1870.1	8.67	8.63	8.58	1940.1	1870.1	25.02	29.25	33.46	1940.1	1870.1	0.47	0.20	0.10
2000.1	1930.1	9.09	9.12	9.11	2000.1	1930.1	25.75	29.85	35.34	2000.1	1930.1	0.42	0.17	0.07
2080.1	2010.1	9.02	9.03	8.99	2080.1	2010.1	23.60	27.45	32.03	2080.1	2010.1	0.67	0.32	0.15
2140.1	2070.1	9.40	9.40	9.36	2140.1	2070.1	23.27	27.11	31.28	2140.1	2070.1	0.64	0.31	0.15
2220.1	2150.1	9.54	9.51	9.45	2220.1	2150.1	22.79	26.63	30.48	2220.1	2150.1	0.75	0.34	0.16
2280.1	2210.1	9.55	9.51	9.43	2280.1	2210.1	22.64	26.44	30.31	2280.1	2210.1	0.82	0.36	0.17
2360.1	2290.1	9.80	9.70	9.59	2360.1	2290.1	21.88	25.00	28.82	2360.1	2290.1	0.90	0.44	0.22
2420.1	2350.1	9.89	9.76	9.63	2420.1	2350.1	21.44	24.26	27.61	2420.1	2350.1	1.05	0.49	0.23
2500.1	2430.1	9.98	9.80	9.64	2500.1	2430.1	20.51	23.13	25.88	2500.1	2430.1	1.43	0.61	0.28
2560.1	2490.1	10.20	9.97	9.81	2560.1	2490.1	20.32	22.86	25.24	2560.1	2490.1	1.64	0.69	0.31

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Typical Performance Data

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1320.1MHz (dB)
		@LO (dBm)
		+17
1310.0	10.1	11.13
1248.1	72.0	9.12
1186.2	133.9	8.24
1124.3	195.8	7.70
1062.4	257.7	6.61
1000.5	319.6	6.02
938.6	381.5	6.28
876.7	443.4	7.19
814.8	505.3	7.19
752.9	567.2	7.38
691.0	629.1	8.19
629.0	691.1	8.35
567.1	753.0	7.64
505.2	814.9	7.35
443.3	876.8	7.19
381.4	938.7	7.23
319.5	1000.6	7.24
257.6	1062.5	7.25
195.7	1124.4	7.33
133.8	1186.3	7.19
51.3	1268.8	6.97
10.0	1330.1	7.03
88.7	1408.8	7.18
147.8	1467.9	7.15
226.5	1546.6	7.22
285.6	1605.7	7.08
364.3	1684.4	6.97
423.3	1743.4	6.91
502.1	1822.2	6.47
561.1	1881.2	6.54
639.8	1959.9	6.58
698.9	2019.0	6.75
777.6	2097.7	7.04
836.7	2156.8	7.24
915.4	2235.5	7.65
974.4	2294.5	7.73
1053.2	2373.3	7.84
1112.2	2432.3	8.40
1191.0	2511.1	9.59
1250.0	2570.1	10.58

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=710.1MHz (dB)
		@LO (dBm)
		+17
10.0	720.1	7.03
50.0	760.1	6.94
90.0	800.1	6.92
130.0	840.1	6.92
170.0	880.1	7.06
190.0	900.1	7.15
230.0	940.1	6.94
250.0	960.1	6.98
290.0	1000.1	6.89
310.0	1020.1	6.84
350.0	1060.1	6.88
370.0	1080.1	6.97
410.0	1120.1	6.96
430.0	1140.1	7.04
470.0	1180.1	7.28
490.0	1200.1	7.39
530.0	1240.1	7.70
550.0	1260.1	7.86
590.0	1300.1	7.99
610.0	1320.1	7.99
650.0	1360.1	8.01
670.0	1380.1	8.04
710.0	1420.1	8.05
730.0	1440.1	8.19
770.0	1480.1	8.26
790.0	1500.1	8.20
830.0	1540.1	8.30
850.0	1560.1	8.37
890.0	1600.1	8.67
910.0	1620.1	8.66
950.0	1660.1	8.66
970.0	1680.1	8.95
1010.0	1720.1	9.41
1030.0	1740.1	9.74
1070.0	1780.1	10.27
1090.0	1800.1	10.36
1130.0	1840.1	10.73
1150.0	1860.1	10.87
1190.0	1900.1	10.93
1210.0	1920.1	11.10

IF (OUT) (MHz)	LO (MHz)	CONVERSION LOSS VS. IF FREQUENCY @RF(IN)=1930.1MHz (dB)
		@LO (dBm)
		+17
1230.0	700.1	10.70
1190.0	740.1	9.89
1150.0	780.1	9.37
1110.0	820.1	8.92
1070.0	860.1	8.87
1030.0	900.1	9.16
990.0	940.1	9.89
970.0	960.1	10.05
930.0	1000.1	9.58
910.0	1020.1	9.26
870.0	1060.1	8.54
850.0	1080.1	8.10
810.0	1120.1	7.57
790.0	1140.1	7.41
750.0	1180.1	7.29
730.0	1200.1	7.27
690.0	1240.1	7.24
670.0	1260.1	7.18
630.0	1300.1	7.09
610.0	1320.1	7.18
570.0	1360.1	7.34
550.0	1380.1	7.50
510.0	1420.1	7.66
490.0	1440.1	7.72
450.0	1480.1	7.85
430.0	1500.1	7.92
390.0	1540.1	8.13
370.0	1560.1	8.25
330.0	1600.1	8.29
310.0	1620.1	8.37
270.0	1660.1	8.35
250.0	1680.1	8.34
210.0	1720.1	8.37
190.0	1740.1	8.34
150.0	1780.1	8.30
130.0	1800.1	8.30
90.0	1840.1	8.41
70.0	1860.1	8.45
30.0	1900.1	8.69
10.0	1920.1	8.85

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Typical Performance Data

LO (MHz)	LO-RF ISOLATION (dB)			LO-IF ISOLATION (dB)		
	@LO (dBm)			@LO (dBm)		
	+14	+17	+20	+14	+17	+20
70.1	67.56	67.00	66.96	53.86	53.77	53.78
130.1	58.42	58.30	58.12	43.76	43.72	43.73
190.1	52.71	52.69	52.09	40.74	40.87	40.78
250.1	47.93	47.95	47.82	36.84	36.85	36.84
310.1	41.28	41.14	40.91	34.75	34.68	34.63
350.1	37.02	36.85	36.85	33.72	33.63	33.68
430.1	43.46	43.42	43.45	47.33	47.39	47.45
490.1	44.44	44.31	44.47	43.62	43.94	44.35
550.1	45.81	45.87	45.95	41.57	41.85	42.02
610.1	45.34	45.23	45.27	40.50	40.77	40.97
670.1	46.37	46.24	46.46	39.26	39.51	39.79
730.1	55.90	58.52	62.65	38.63	38.82	39.09
790.1	48.05	47.37	46.81	39.52	39.94	40.64
850.1	44.98	44.71	44.75	38.10	38.41	38.81
910.1	42.66	42.27	41.88	37.41	37.63	37.75
970.1	41.12	40.70	40.49	36.77	36.92	37.06
1030.1	39.58	39.27	39.40	36.33	36.43	36.72
1090.1	37.99	37.67	37.64	36.91	37.05	37.31
1150.1	36.57	36.36	36.28	37.57	37.78	37.97
1210.1	35.33	35.13	35.18	37.98	38.19	38.39
1270.1	34.02	33.81	33.66	38.42	38.65	38.81
1330.1	32.62	32.43	32.24	38.32	38.62	38.70
1390.1	32.55	32.41	32.32	38.30	38.67	38.82
1450.1	33.35	33.29	33.17	38.60	38.98	39.11
1510.1	33.11	33.12	33.03	38.73	39.13	39.24
1570.1	33.59	33.37	33.65	38.79	39.13	39.43
1630.1	36.44	36.30	36.90	39.43	40.01	40.44
1690.1	38.62	38.56	38.89	42.12	42.82	43.41
1750.1	40.25	40.31	40.63	44.72	45.42	46.36
1810.1	39.96	40.10	40.25	43.99	44.13	44.36
1870.1	38.90	39.05	39.26	44.12	44.00	44.15
1930.1	37.34	37.72	37.74	45.62	45.59	45.50
2010.1	36.01	36.23	36.24	47.93	47.66	47.55
2070.1	35.21	35.26	35.39	48.15	47.64	47.71
2150.1	34.52	34.46	34.62	46.89	46.48	46.40
2210.1	34.04	34.01	34.14	45.67	45.39	45.36
2290.1	33.71	33.89	33.74	44.12	44.12	43.93
2350.1	33.67	33.85	33.85	43.46	43.49	43.33
2430.1	33.71	33.83	33.89	42.60	42.56	42.37
2490.1	33.52	33.74	33.75	41.87	41.93	41.73

RF (IN) (MHz)	LO (MHz)	RF-IF ISOLATION (dB)		
		@LO (dBm)		
		+14	+17	+20
140.1	70.1	55.96	52.57	49.59
200.1	130.1	45.37	45.16	44.45
260.1	190.1	40.19	40.09	40.15
320.1	250.1	35.56	35.52	35.89
380.1	310.1	35.53	35.60	35.98
420.1	350.1	36.56	36.68	37.15
500.1	430.1	34.93	35.06	35.55
560.1	490.1	33.34	33.29	33.54
620.1	550.1	32.64	32.54	32.82
680.1	610.1	33.98	34.17	34.61
740.1	670.1	34.53	34.70	35.11
800.1	730.1	39.35	38.05	36.79
860.1	790.1	47.25	46.01	45.09
920.1	850.1	35.29	35.20	34.92
980.1	910.1	32.51	32.38	32.08
1040.1	970.1	31.07	30.78	30.38
1100.1	1030.1	30.54	30.42	30.38
1160.1	1090.1	30.41	30.15	30.17
1220.1	1150.1	31.14	30.90	30.97
1280.1	1210.1	32.55	32.35	32.47
1340.1	1270.1	34.50	34.24	34.30
1400.1	1330.1	37.62	37.42	37.35
1460.1	1390.1	39.86	39.89	39.78
1520.1	1450.1	41.38	41.49	41.19
1580.1	1510.1	44.67	44.73	44.05
1640.1	1570.1	45.61	44.96	43.53
1700.1	1630.1	42.71	42.23	41.27
1760.1	1690.1	43.37	43.38	42.77
1820.1	1750.1	44.27	44.49	44.26
1880.1	1810.1	43.77	43.80	44.08
1940.1	1870.1	41.29	41.26	41.53
2000.1	1930.1	39.86	39.87	40.03
2080.1	2010.1	38.15	38.10	38.19
2140.1	2070.1	36.87	36.75	36.78
2220.1	2150.1	35.71	35.55	35.63
2280.1	2210.1	34.99	34.82	34.89
2360.1	2290.1	33.98	33.79	33.82
2420.1	2350.1	33.34	33.12	33.19
2500.1	2430.1	32.67	32.47	32.53
2560.1	2490.1	32.15	31.97	32.03

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Typical Performance Data

RF (IN) (MHz)	LO (MHz)	RF VSWR (:1)		
		@LO (dBm)		
		+14	+17	+20
140.1	70.1	9.63	9.63	9.74
200.1	130.1	4.55	4.51	4.53
260.1	190.1	2.85	2.84	2.84
320.1	250.1	2.10	2.11	2.11
380.1	310.1	1.67	1.67	1.67
420.1	350.1	1.40	1.40	1.40
500.1	430.1	2.09	2.17	2.20
560.1	490.1	1.71	1.76	1.78
620.1	550.1	1.80	1.84	1.85
680.1	610.1	2.11	2.15	2.17
740.1	670.1	2.35	2.40	2.43
800.1	730.1	2.35	2.41	2.42
860.1	790.1	2.35	2.41	2.43
920.1	850.1	2.33	2.39	2.40
980.1	910.1	2.23	2.30	2.33
1040.1	970.1	2.10	2.17	2.21
1100.1	1030.1	1.98	2.07	2.11
1160.1	1090.1	1.81	1.91	1.94
1220.1	1150.1	1.60	1.69	1.72
1280.1	1210.1	1.46	1.54	1.56
1340.1	1270.1	1.33	1.39	1.41
1400.1	1330.1	1.31	1.36	1.38
1460.1	1390.1	1.39	1.46	1.48
1520.1	1450.1	1.31	1.36	1.37
1580.1	1510.1	1.28	1.32	1.32
1640.1	1570.1	1.44	1.47	1.48
1700.1	1630.1	1.83	1.88	1.89
1760.1	1690.1	2.16	2.22	2.25
1820.1	1750.1	2.52	2.59	2.62
1880.1	1810.1	2.90	2.98	3.03
1940.1	1870.1	3.19	3.28	3.33
2000.1	1930.1	3.68	3.81	3.89
2080.1	2010.1	3.86	3.99	4.06
2140.1	2070.1	3.95	4.08	4.14
2220.1	2150.1	4.06	4.17	4.22
2280.1	2210.1	4.02	4.11	4.16
2360.1	2290.1	4.02	4.05	4.09
2420.1	2350.1	4.01	4.02	4.06
2500.1	2430.1	4.02	4.01	4.04
2560.1	2490.1	4.07	4.03	4.08

LO (MHz)	LO VSWR (:1)		
	@LO (dBm)		
	+14	+17	+20
70.1	5.36	5.34	5.31
130.1	3.43	3.42	3.42
190.1	3.22	3.22	3.21
250.1	3.54	3.54	3.54
310.1	3.87	3.87	3.86
350.1	3.78	3.77	3.77
430.1	4.63	4.62	4.59
490.1	5.28	5.27	5.23
550.1	5.70	5.68	5.66
610.1	5.99	5.97	5.93
670.1	6.13	6.11	6.09
730.1	6.26	6.24	6.21
790.1	6.30	6.28	6.21
850.1	6.26	6.24	6.21
910.1	6.15	6.11	6.07
970.1	6.05	6.03	5.99
1030.1	5.79	5.79	5.77
1090.1	5.47	5.46	5.39
1150.1	5.22	5.22	5.20
1210.1	4.93	4.93	4.89
1270.1	4.60	4.59	4.54
1330.1	4.22	4.21	4.19
1390.1	3.95	3.93	3.90
1450.1	3.70	3.69	3.67
1510.1	3.44	3.43	3.43
1570.1	3.15	3.14	3.12
1630.1	2.95	2.95	2.95
1690.1	2.79	2.78	2.78
1750.1	2.57	2.57	2.56
1810.1	2.40	2.41	2.40
1870.1	2.25	2.26	2.25
1930.1	2.14	2.14	2.13
2010.1	2.05	2.05	2.05
2070.1	2.00	2.00	2.00
2150.1	1.97	1.97	1.96
2210.1	1.98	1.98	1.97
2290.1	2.00	2.01	2.00
2350.1	2.02	2.02	2.01
2430.1	2.05	2.05	2.04
2490.1	2.07	2.07	2.05

IF (OUT) (MHz)	IF VSWR @LO=1860MHz (:1)		
	@LO (dBm)		
	+14	+17	+20
10.1	2.17	2.27	2.30
30.1	2.12	2.21	2.24
50.1	2.14	2.24	2.27
70.1	2.10	2.20	2.22
110.1	2.13	2.23	2.25
130.1	2.20	2.30	2.33
170.1	2.18	2.27	2.30
190.1	2.16	2.24	2.26
230.1	2.17	2.25	2.26
250.1	2.17	2.23	2.24
290.1	2.21	2.26	2.26
310.1	2.28	2.33	2.34
350.1	2.33	2.37	2.38
370.1	2.28	2.32	2.33
410.1	2.30	2.33	2.34
430.1	2.32	2.35	2.36
470.1	2.26	2.28	2.29
490.1	2.28	2.30	2.31
530.1	2.19	2.20	2.21
550.1	2.07	2.08	2.09
590.1	1.96	1.96	1.97
610.1	1.94	1.94	1.95
650.1	1.76	1.76	1.76
670.1	1.68	1.68	1.68
710.1	1.55	1.54	1.54
730.1	1.41	1.40	1.40
770.1	1.26	1.25	1.25
790.1	1.22	1.21	1.21
830.1	1.05	1.07	1.08
850.1	1.07	1.12	1.13
890.1	1.20	1.25	1.26
910.1	1.30	1.35	1.37
950.1	1.53	1.58	1.60
970.1	1.61	1.67	1.68
1010.1	1.87	1.95	1.97
1030.1	2.06	2.15	2.18
1070.1	2.39	2.50	2.52
1090.1	2.59	2.72	2.75
1130.1	3.01	3.16	3.20
1150.1	3.17	3.33	3.37

REV. X2

SYXM-ED13232B/1

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Harmonics Tables

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	11	43	43	46	38	42	62	65	36	49
1	-	24	+0	39	31	42	43	56	40	58	43	54
2	64	76	48	55	49	70	73	77	60	74	64	75
3	>90	>81	74	75	61	73	81	>81	>81	>81	77	>81
4	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
5	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
6	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
7	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
8	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
9	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
10	>90	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81	>81
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1000 MHz; -2.00 dBm.
LO IN: 970 MHz; +17.00 dBm
IF OUT: 30 MHz; -9.08 dBm

RF HARMONICS ORDER

	(-dBm)	(-dBc)										
0	-	-	23	49	49	57	44	52	52	75	49	53
1	-	24	+0	42	32	42	45	56	42	56	45	59
2	44	63	36	47	43	62	64	71	53	63	58	69
3	72	65	52	60	40	63	58	69	63	72	60	84
4	>90	80	76	79	56	65	54	79	89	89	74	82
5	>90	89	>91	87	88	74	70	71	78	>91	81	88
6	>90	>91	>91	>91	>91	>91	75	81	76	>91	>91	>91
7	>90	>91	>91	>91	>91	>91	>91	85	75	86	>91	>91
8	>90	>91	>91	>91	>91	>91	>91	>91	86	85	89	>91
9	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
10	>90	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91	>91
	RF CAL	0	1	2	3	4	5	6	7	8	9	10

LO HARMONICS ORDER

Test conditions: RF IN: 1000 MHz; 8.00 dBm.
LO IN: 970 MHz; +17.00 dBm
IF OUT: 30 MHz; 0.84 dBm

- Notes: 1. All Harmonics are in (dBc) relative to IF OUTPUT.
2. + entry denotes harmonics are in (dBc) above IF OUTPUT.
3. RF Cal represent the Harmonics level of the RF input signal to the mixer.